

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): John H. Stevens, et al.

Examiner: unassigned

Serial No: unassigned

Art Unit: unassigned

Filed: unassigned

Docket: 15302ZYXWAZ (H-176)

For: MINIMALLY-INVASIVE
DEVICES AND METHODS
FOR TREATMENT OF
CONGESTIVE HEART FAILURE

Dated: September 17, 2003

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

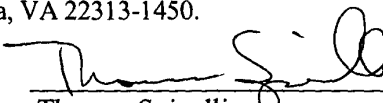
1. U.S. Patent No. US 2002/0111533 A1, dated August 15, 2002, issued to Melvin;
2. U.S. Patent No. US 2002/0029783 A1, dated March 14, 2002, issued to Stevens et al.;
3. U.S. Patent No. US 2002/0022880A1, dated February 21, 2002, issued to Melvin;
4. U.S. Patent No. US 2002/0007216 A1, dated January 17, 2002, issued to Melvin;

CERTIFICATE OF MAILING BY EXPRESS MAIL

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Date of Deposit: September 17, 2003

I hereby certify that this correspondence is being deposited with the United States Postal Service Express Mail Post Office to Addressee service under 37 C.F.R. §1.10 on the date indicated above and is addressed to the Commissioner for Patents, Alexandria, VA 22313-1450.

Dated: September 17, 2003.


Thomas Spinelli

5. U.S. Patent No. US 6,283,993 B1, dated September 4, 2001, issued to Cosgrove et al.;
6. U.S. Patent No. US 6,258,021 B1, dated July 10, 2001, issued to Wilk;
7. U.S. Patent No. US 2001/0003986 A1, dated June 21, 2001, issued to Cosgrove;
8. U.S. Patent No. US 6,224,540 B1, dated May 1, 2001, issued to Lederman et al.;
9. U.S. Patent No. US 6,221,103 B1, dated April 24, 2001, issued to Melvin;
10. U.S. Patent No. US 6,217,610 B1, dated April 17, 2001, issued to Carpentier et al.;
11. U.S. Patent No. US 6,197,052 B1, dated March 6, 2001 issued to Cosgrove et al.;
12. U.S. Patent No. US 6,182,664 B1, dated February 6, 2001, issued to Cosgrove;
13. U.S. Patent No. 6,125,852, dated October 3, 2000, issued to Stevens et al.;
14. U.S. Patent No. 6,117,159, dated September 12, 2000, issued to Huebsch et al.;
15. U.S. Patent No. 6,079,414, dated June 27, 2000, issued to Roth;
16. U.S. Patent No. 6,024,756, dated February 15, 2000, issued to Huebsch et al.;
17. U.S. Patent No. 5,984,857, dated November 16, 1999, issued to Buck et al.;
18. U.S. Patent No. 5,972,030, dated October 26, 1999, issued to Garrison et al.;
19. U.S. Patent No. 5,971,911, dated October 26, 1999, issued to Wilk;
20. U.S. Patent No. 5,957,977, dated September 28, 1999, issued to Melvin;
21. U.S. Patent No. 5,865,791, dated February 2, 1999, issued to Whayne et al.;
22. U.S. Patent No. 5,856,614, dated January 5, 1999, issued to Hall;
23. U.S. Patent No. 5,855,601, dated January 5, 1999, issued to Bessler et al.;
24. U.S. Patent No. 5,849,005, dated December 15, 1998, issued to Garrison et al.;
25. U.S. Patent No. 5,814,097, dated September 29, 1998, issued to Sterman et al.;
26. U.S. Patent No. 5,810,721, dated September 22, 1998, issued to Mueller et al.;
27. U.S. Patent No. 5,800,528, dated September 1, 1998, issued to Lederman et al.;
28. U.S. Patent No. 5,800,334, dated September 1, 1998, issued to Wilk;
29. U.S. Patent No. 5,766,151, dated June 16, 1998, issued to Valley et al.;

30. U.S. Patent No. 5,758,663, dated June 2, 1998, issued to Wilk et al.;
31. U.S. Patent No. 5,718,725, dated February 17, 1998, issued to Sterman et al.;
32. U.S. Patent No. 5,713,954, dated February 3, 1998, issued to Rosenberg et al.;
33. U.S. Patent No. 5,682,906, dated November 4, 1997, issued to Sterman et al.;
34. U.S. Patent No. 5,665,092, dated September 9, 1997, issued to Mangiardi et al.;
35. U.S. Patent No. 5,593,424, dated January 14, 1997, issued to Northrop III;
36. U.S. Patent No. 5,584,803, dated December 17, 1996, issued to Stevens et al.;
37. U.S. Patent No. 5,571,215, dated November 5, 1996, issued to Sterman et al.;
38. U.S. Patent No. 5,533,958, dated July 9, 1996, issued to Wilk;
39. U.S. Patent No. 5,509,428, dated April 23, 1996, issued to Dunlop;
40. U.S. Patent No. 5,501,698, dated March 26, 1996, issued to Roth et al.;
41. U.S. Patent No. 5,496,305, dated March 5, 1996, issued to Kittrell et al.;
42. U.S. Patent No. 5,458,574, dated October 17, 1995, issued to Machold et al.;
43. U.S. Patent No. 5,452,733, dated September 26, 1995, issued to Sterman et al.;
44. U.S. Patent No. 5,450,860, dated September 19, 1995, issued to O'Connor;
45. U.S. Patent No. 5,433,727, dated July 18, 1995, issued to Sideris;
46. U.S. Patent No. 5,433,700, dated July 18, 1995, issued to Peters;
47. U.S. Patent No. 5,391,156, dated February 21, 1995, issued to Hildwein et al.;
48. U.S. Patent No. 5,385,528, dated January 31, 1995, issued to Wilk;
49. U.S. Patent No. 5,339,800, dated August 23, 1994, issued to Wiita et al.;
50. U.S. Patent No. 5,332,402, dated July 26, 1994, issued to Teitelbaum;
51. U.S. Patent No. 5,312,344, dated May 17, 1994, issued to Grinfeld et al.;
52. U.S. Patent No. 5,308,320, dated May 3, 1994, issued to Safar et al.;
53. U.S. Patent No. 5,284,488, dated February 8, 1994, issued to Sideris;
54. U.S. Patent No. 5,250,038, dated October 5, 1993, issued to Melker et al.;

55. U.S. Patent No. 5,250,049, dated October 5, 1993, issued to Michael;
56. U.S. Patent No. 5,203,776, dated April 20, 1993, issued to Durfee;
57. U.S. Patent No. 5,197,979, dated March 30, 1993, issued to Quintero et al.;
58. U.S. Patent No. 5,192,314, dated March 9, 1993, issued to Daskalakis;
59. U.S. Patent No. 5,188,619, dated February 23, 1993, issued to Myers;
60. U.S. Patent No. 5,169,381, dated December 8, 1992, issued to Snyders;
61. U.S. Patent No. Re. 34,021, dated August 4, 1992, issued to Mueller et al.;
62. U.S. Patent No. 5,131,905, dated July 21, 1992, issued to Grooters;
63. U.S. Patent No. 5,109,859, dated May 5, 1992, issued to Jankins;
64. U.S. Patent No. 5,106,386, dated April 21, 1992, issued to Isner et al.;
65. U.S. Patent No. 5,104,393, dated April 14, 1992, issued to Isner et al.;
66. U.S. Patent No. 5,104,407, dated April 14, 1992, issued to Lam et al.;
67. U.S. Patent No. 5,041,130, dated August 20, 1991, issued to Cosgrove et al.;
68. U.S. Patent No. 5,032,128, dated July 16, 1991, issued to Alonso;
69. U.S. Patent No. 5,011,469, dated April 30, 1991, issued to Buckberg et al.;
70. U.S. Patent No. 4,997,431, dated March 5, 1991, issued to Isner et al.;
71. U.S. Patent No. 4,960,424, dated October 2, 1990, issued to Grooters;
72. U.S. Patent No. 4,944,753, dated July 31, 1990, issued to Burgess et al.;
73. U.S. Patent No. 4,936,857, dated June 26, 1990, issued to Kulik;
74. U.S. Patent No. 4,808,163, dated February 28, 1989, issued to Laub;
75. U.S. Patent No. 4,705,040, dated November 10, 1987, issued to Mueller et al.;
76. U.S. Patent No. 4,690,134, dated September 1, 1987, issued to Snyders;
77. U.S. Patent No. 4,655,218, dated April 7, 1987, issued to Kulik et al.;
78. U.S. Patent No. 4,536,893, dated August 27, 1985, issued to Parravicini;
79. U.S. Patent No. 4,409,974, dated October 18, 1983, issued to Freeland;

80. U.S. Patent No. 4,372,293, dated February 8, 1983, issued to Vijil-Rosales;
81. U.S. Patent No. 4,261,342, dated April 14, 1981, issued to Aranguren Duo;
82. U.S. Patent No. 4,192,293, dated March 11, 1980, issued to Asrican;
83. U.S. Patent No. 4,173,981, dated November 13, 1979, issued to Mortensen;
84. U.S. Patent No. 4,042,979, dated August 23, 1977, issued to Angell;
85. U.S. Patent No. 3,409,013, dated November 5, 1968, issued to Berry;
86. German Patent No. DE3614292, publication date of November 19, 1987,
together with English language abstract;
87. European Patent No. 0218275 A1, dated April 15, 1987;
88. European Patent No. 0583012 A1, dated February 16, 1994;
89. International Publication No. WO 97/24083, publication date of July 10, 1997;
90. International Publication No. WO 97/24082, publication date of July 10, 1997;
91. International Publication No. WO 96/40356, publication date of December 19, 1996;
92. International Publication No. WO 9604852A1, publication dated of February 22, 1996;
93. International Publication No. WO 95/16476, publication date of June 22, 1995;
94. International Publication No. WO 95/06447, publication date of March 9, 1995;
95. International Publication No. WO 93/20742, publication date of October 28, 1993;
96. International Publication No. WO 93/20741, publication date of October 28, 1993;
97. International Publication No. WO 91/19465, publication date of December 26, 1991;
98. German Patent No. DE4234127, publication date of May 26, 1994 together with an
English language abstract;
99. Huikuri, H. V., "Effect of mitral valve replacement on left ventricular function in mitral
regurgitation", *Br Heart F* 1983; 49: pp. 328-33;
100. Pitarys II, C. J., et al., "Long-Term Effects of Excision of the Mitral Apparatus on
Global and Regional Ventricular Function in Humans", *JACC*, Vol. 15, No. 3, March 1,
1990, pp. 557-563;

101. Bolling, S. F., "Early Outcome of Mitral Valve Reconstruction in Patients with End-Stage Cardiomyopathy", *The Journal of Thoracic and Cardiovascular Surgery*, Vol. 109, No. 4, pp. 676-683;
102. Oe, Masahiro, et al., "Effects of preserving mitral apparatus on ventricular systolic function in mitral valve operations in dogs", *The Journal of Thoracic and Cardiovascular Surgery*, Vol. 106, No. 5, pp. 1138-1146;
103. Alonso-Lej, F., "Adjustable Annuloplasty for Tricuspid Insufficiency", *The Annals of Thoracic Surgery*, Vol. 46, No. 3, September 1988, pp. 368-369;
104. Kurlansky, P., et al., "Adjustable Annuloplasty for Tricuspid Insufficiency", *Annual Thoracic Surgery*, Vol. 44, October 1987, pp. 404-406;
105. Boyd, A. D., et al., "Tricuspid annuloplasty", *The Journal of Thoracic and Cardiovascular Surgery*, Vol. 68, No. 3, September 1974, pp. 344-351;
106. Edie, R. N., et al., "Surgical repair of single ventricle", *The Journal of Thoracic and Cardiovascular Surgery*, Vol. 66, No. 3, September 1973, pp. 350-360;
107. McGoon, D. C., et al., "Correction of the univentricular heart having two atrioventricular valves" *The Journal of the Thoracic and Cardiovascular Surgery*, Vol. 74, No. 2, August 1977, pp. 218-226;
108. Lev, M., et al., "Single (Primitive) Ventricle", *Circulation*, Vol. XXXIX, May 1969, pp. 577-591;
109. Shumacker, Jr., H. B., "Cardiac Aneurysms", *The Evolution of Cardiac Surgery*, Vol. 21, 1992, pp. 159-165;
110. Feldt, R. H., et al., "Current status of the septation procedure for univentricular heart", *The Journal of Thoracic and Cardiovascular Surgery*, Vol. 82, No. 1, July 1981, pp. 93-97;
111. Doty, D. B., et al., "Septation of the univentricular heart", *The Journal of Thoracic and Cardiovascular Surgery*, Vol. 78, No. 3, September 1979, pp. 423-430;
112. Savage, E. B., et al., "Repair of left ventricular aneurysm, Changes in ventricular mechanics, hemodynamics, and oxygen consumption", *The Journal of Thoracic and Cardiovascular Surgery*, Vol. 134, No. 3, September 1992, pp. 752-762;
113. Melvin, D., "Ventricular Radius-Reduction Without Resection", A Computational Assessment, University of Cincinnati;
114. Melvin, D. B., et al., "Reduction of Ventricular Wall Tensile Stress by Geometric Remodeling Device", University of Cincinnati and CardioEnergetics, Inc., (Poster text, ASAIO, 1999);

115. Kay, E. B., et al., "Surgical Treatment of Mitral Insufficiency", The Journal of Thoracic Surgery, Vol. 29, January-June, 1955, pp. 618-620;
116. Harken, D. E., et al., "The Surgical Correction of Mitral Insufficiency", The Journal of Thoracic Surgery, Vol. 28, July-December, 1954, pp. 604-627;
117. Bailey, C. P., et al., "Closed Intracardiac Tactile Surgery", Diseases of the Chest, Vol. XXII, July-December, 1952, pp. 1-24;
118. Sakakibara, S., "A Surgical Approach to the Correction of Mitral Insufficiency", Annals of Surgery, Vol. 142, July-December, 1955, p. 196-203;
119. Glenn, W. W. L., et al., "The Surgical Treatment of Mitral Insufficiency: The Fate of A Vascularized Transchamber Intracardiac Graft", Annals of Surgery, Vol. 141, No. 4, pp. 510-518;
120. Kay, E. B., et al., "Surgical Treatment of Mitral Insufficiency", Surgery, Vol. 37, No. 5, May, 1995, pp. 697-620;
121. Bailey, C. P., et al., "The Surgical Correction of Mitral Insufficiency By the Use of Pericardial Grafts", The Journal of Thoracic Surgery, Vol. 28, July-December 1954, pp. 551-603;
122. Harken, D. E., et al., "The Surgical Correction of Mitral Insufficiency", The Journal of Thoracic Surgery, Vol. 28, July-December 1954, pp. 604-627;
123. Shumacker, Jr., H. B., "Attempts to Control Mitral Regurgitation", The Evolution of Cardiac Surgery, 1992, pp. 204-210;
124. Ianuzzo, C. D., et al., "Preservation of the Latissimus Dorsi Muscle During Cardiomyoplasty Surgery", Journal of Cardiac Surgery, Vol. 11, September 1996, pp. 99-108;
125. Chachques, J. C., et al., "Latissimus Dorsi Dynamic Cardiomyoplasty", The society of Thoracic Surgeons, 1989, Vol. 47, pp. 600-604;
126. Moreira, L. F. P., et al., "Latissimus Dorsi Cardiomyoplasty in the Treatment of Patients with Dilated Cardiomyopathy", Circulation, 1990, Vol. 82;
127. Lucas, C. M. H. B., et al., "Long-Term Follow-Up (1 to 35 Weeks) After Dynamic Cardiomyoplasty", Journal of American College of Cardiology, Vol. 22, No. 3, September 1993, pp. 758-767;
128. Batista, R. J. V., et al., "Partial Left Ventriculectomy to Improve Left Ventricular Function in End-Stage Heart Disease", Journal of Cardiac Surgery, 1996; 11: pp. 96-97;
129. Kormos, R. L., et al., "Experience with Univentricular Support in Mortally III Cardiac Transplant Candidates", Ann. Thorac. Surg. 1990; 49: pp. 261-272;

130. Wampler, R. K., et al., "Treatment of Cardiogenic Shock with the Hemopump Left Ventricular Assist Device", *Ann. Thorac. Surg.* 1991; 52: pp. 506-513;
131. McCarthy, P. M., et al., "Clinical experience with the Novacor ventricular assist system", *J. Thorac. Cardiovasc. Surg.* 1991;102: pp. 578-587;
132. Bearns, G. B., et al., "Development of a Prototype Magnetically Suspended Ventricular Assist Device", *ASAIO Journal*, July-August 1996, Vol. 42, No. 4 pp. 275-281;
133. Sakakibara, N., et al., "A Muscle Powered Cardiac Assist Device for Right Ventricular Support: Total Assist or Partial Assist?", *ASAIO Transactions*, July-September 1990, Vol. 36, No. 3, pp. M372-M375;
134. Bach, D. S., et al., "Early improvement in congestive heart failure after correction of secondary mitral regurgitation in end-stage cardiomyopathy", *American Heart Journal*, June 1995, Vol. 129, No. 6, pp. 1165-1170;
135. Farrar, D. J., et al., "A New Skeletal Muscle Linear-pull Energy Converter as a Power Source for Prosthetic Circulatory Support Devices", *The Journal of Heart and Lung Transplantation*, September/October 1992, Vol. 11, No. 5, pp. S341-S349;
136. ABIOMED, Annual Report, 1996, for the Fiscal Year Ending March 31, 1996;
137. Medtronic 1996 Annual Shareholders Report;
138. Invited Commentary: Preservation of Muscle During Surgery, pp. 109-110, On "Preconditioning of Skeletal Muscle: Application to Dynamic Cardiomyoplasty" by C. David Iannuzzo, et al.;
139. Carpentier, A., et al., "Myocardial Substitution with a Stimulated Skeletal Muscle: First Successful Clinical Case", *Letters to the Editor*, page 1267, September 1996;
140. "Congestive Heart Failure in the United States: A New Epidemic", NHLBI Congestive Heart Failure Data Fact Sheet, National Heart, Lung, and Blood Institute, National Institutes of Health, <http://www.nhlbi.nih.gov/nhlbi/cardio/other/gp/CHF.htm>;
141. "Heartmate System Becomes First Implantable Cardiac-Assist Device to be Approved to Commercial Sale in the U.S., Study Shows New Artificial Heart Technology Can Double The Rate of Survival for Heart Transplant Candidates", TCI Thermo Cardiosystems Inc. News Release, October 3, 1994;
142. ABIOMED NEWS, For Immediate Release, ABIOMED Wins \$8.5 Million Federal Contract To Qualify its Artificial Heart for Human Trials, September 16, 1996;
143. ABIOMED NEWS, For Immediate Release, ABIOMED's Temporary Artificial Heart System Reaches 200 U.S. Medical Center Milestone, September 26, 1996;

144. ABIOMED NEWS, For Immediate Release, ABIOMED Wins \$4.35 Million Contract From the National Heart, Lung and Blood Institutes to Develop Implantable Heart Booster, October 3, 1995;
145. ABIOMED NEWS, For Immediate Release, ABIOMED Wins NIH Grant to Develop Calcification-Resistant Plastic Heart Valve, September 29, 1995;
146. ABIOMED NEWS, ABIOMED Wins Research Grant From NIH to Develop Suturing Instrument for Abdominal Surgery, August 25, 1995;
147. ABIOMED NEWS, For Immediate Release, ABIOMED Receives Grant from NIH to Develop Disposable Bearingless Centrifugal Blood Pump, August 11, 1995;
148. ABIOMED NEWS, ABIOMED Receives Grant From National Institutes of Health To Develop a Laser Welding Technique for Tissue Repair, June 9, 1995;
149. ABIOMED NEWS, For Immediate Release, ABIOMED®'S Temporary Artificial Heart System Reaches 1,000 patient Milestone; BVS-5000® in More than 100 U.S. Medical Centers, April 27, 1995;
150. THORATEC™ Brochure, January 2, 1997;
151. Reversible Cardiomyopathy, 88 Days of Biventricular VAD Support as a Bridge to Recovery, THORATEC'S HEARTBEAT, Vol. 10.2, August 1996;
152. Gundry et al. "A Comparison of Retrograde Cardioplegia Versus Antegrade Cardioplegia in the Presence of Coronary Artery Obstruction, " Ann. Thorac. Surg., Aug. 1984, 38:2, 124-127;
153. Lust et al. "Improved Protection of Chronically Inflow-limited Myocardium with Retrograde Coronary Sinus Cardioplegia, " Circulation III, Nov. 1988, 78:5, 217-223;
154. Crooke et al., "Biventricular Distribution of Cold Blood Cardioplegic Solution Administered by Different Retrograde Techniques, " J. Cardiac Thorac. Surg., 1991, 102:4, 631-636;
155. Sabiston, D. C., Textbook of Surgery, 10th Ed., 1972, pp. 2021-2023, pp. 2114-2121;
156. Buckberg, G. D., "Strategies and Logic of Cardioplegic Delivery to Prevent, Avoid, and Reverse Ischemic and Reperfusion Damage, " J. Thorac. Cardio. Vasc. Surg., 1987, 93:127-139;
157. Razi, D. M. "The Challenge of Calcific Aortitis, " J. Cardiac Thorac. Surg., 1993, 8:102-107;
158. Coltharp, William H., et al. "Videothorascopy . . . " Ann Thorac Surg 1992; 53:776-9;

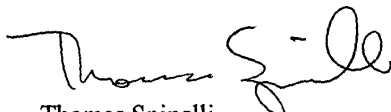
159. Jamieson, W. R. Eric. "Modern Cardiac Valve Devices-Bioprostheses and Mechanical Prostheses" J Card Surg. 1993;8: 89-98;
160. Landrenseau, Rodney J., et al. "Video-Assisted Thoracic Surgery . . ." Ann Thorac Surg 1992; 54:800-7;
161. Mack, Michael J., et al. "Present Role of Thoracoscopy in the Diagnosis and Treatment of Diseases of the Chest" Ann Thorac Surg 1992; 54:403-9;
162. Magovern, George J. "Sutureless Aortic and Mitral Prosthetic Valves" J. Thoracic and Cardiovasc Surg 1964; 48(3): 346-361;
163. Ozuner, Gokhan, et al. "Creation of Pericardial Window Using Thoracoscopic Techniques" Surg, Gynecology & Obstetrics 1992; 175:69-71;
164. Wakabayashi, Akio. "Expanded Applications of Diagnostic and Therapeutic Thoracoscopy" J Thorac and Cardiovasc Surg 1991; 102:721-3;
165. Yamaguchi, A. et al. "A Case of a Reoperation Using a Balloon Catheter With Blocked Pars Acendes Aortae," Kyobu Geka, Oct. 1991, 42:11:961-964;
166. Peters, W. S., MB, ChB, "Minimally Invasive Cardiac Surgery by Cardioscopy," AustralAs J Cardiac Thorac Surg 1993;2(3) 152-154;
167. Cohn, L. H. et al. "Right Thoracotomy, Femorofemoral Bypass, and Deep Hypothermia for Re-replacement of the Mitral Valve," Ann. Thorac. Surg. 1989; 48; 69-71;
168. Fundaro, P. et al. "Towards an easier and safer reoperation of the atrioventricular valves The right anterolateral thoracotomy approach without pericardial dissection," J. Cardiovasc. Surg. 30, 1989, 779-781;
169. Tribble, C. G. et al. "Anterolateral Thoracotomy as an Alternative to Repeat Median Sternotomy for Replacement of the Mitral Valve," Ann. Thorac. Surg. 43:380-382, Apr. 1987;
170. Berreklouw, E. et al. "Revival of Right Thoracotomy to Approach Atrio-ventricular Valves in Reoperations," Thorac. cardiovasc. Surgeon 32 (1984) 331-333;
171. Cosgrove, D. M. "Management of the Calcified Aorta: An Alternative Method of Occlusion" Ann Thorac Surg. 36:718-719 (1983);
172. J. H. Foster and J. B. Threlkel "Proximal Control of Aorta with a Balloon Catheter" Surg, Gynecology & Obstetrics pp. 693-694 (1971);
173. H. G. Erath, Jr. and William S. Stoney, Jr. "Balloon Catheter Occlusion of the Ascending Aorta" Ann Thorac Surg. 35:560-561 (1983);

174. Sakaguchi, H. et al., "Aortic Valve Replacement and Coronary Artery Bypass" J. Japanese Assoc. for Thoracic Surgery 41(6): 1063-1068 (1993);
175. Batista et al., "Partial Left Ventriculectomy to Improve Left Ventricular Function in End-Stage Heart Disease", Vol. 11, No.: pp. 96-98, July 1992;
176. Schuler, G., et al., "Temporal Response of Left Ventricular Performance to Mitral Valve Surgery", Circulation, Vol. 59, No. 6, June 1979, pp. 1218-1231;
177. ABIOMED NEWS, For Immediate Release, ABIOMED Receives FDA Approval To Expand Indications For Use of Cardiac Assist System, May 17, 1996;
178. Ogawa, K., et al., "Aortic Arch Reconstruction Without Aortic Cross Clamping Using Separate Extracorporeal Circulation", J. Jpn. Assn. Thorac. Surg. 1993; 41: 2185-2190;
179. Ishikawa, M., "Myocardial Protection by Retrograde Cardiac Perfusion with Cold Medified Krebs Solution Through Coronary Sinus During Complete Ischemic Arrest for 120 Min.", J. Jpn. Assn. Thorac. Surg., 1977, 25:12, 1592-1601;
180. Takahashi, M., "Retrograde Coronary Sinus Perfusion for Myocardial Protection in Aortic Valve Surgery", J. Jpn. Assn. Thorac. Surg., 1982, 30:3 306-318.

Pursuant to 37 C.F.R. §1.98(d), copies of the above listed references are not provided, as the references were previously submitted to the Examiner in the parent application Serial Number 09/950,917 filed on September 12, 2001.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. §1.97(b), no statement or fee is required.

Respectfully submitted,



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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 15302ZYXWAZ (HRT-176)		Application Number unassigned	
				Applicant(s) JOHN H. STEVENS, et al.			
				Filing Date herewith		Group Art Unit unassigned	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		US 2002/0111533 A1	8/15/2002	Melvin			
		US 2002/0029783 A1	3/14/2002	Stevens et al.			
		US 2002/0022880 A1	2/21/2002	Melvin			
		US2002/0007216 A1	1/17/2002	Melvin			
		US 6,283,993 B1	9/4/2001	Cosgrove et al.			
		US 6,258,021 B1	7/10/2001	Wilk			
		US 2001/0003986 A1	6/21/2001	Cosgrove			
		US 6,224,540 B1	5/1/2001	Lederman et al.			
		US 6,221,103 B1	4/24/2001	Melvin			
		US 6,217,610 B1	4/17/2001	Carpentier et al.			
		US 6,197,052 B1	3/6/2001	Cosgrove et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
		DE3614292	11/19/1987	Germany			✓
		0218275 A1	4/15/1987	EPO			
		0583012 A1	2/16/1994	EPO			
		WO 97/24083	7/10/1997	PCT			
		WO 97/24082	7/10/1997	PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Huikuri, H. V., "Effect of mitral valve replacement on left ventricular function in mitral regurgitation", Br Heart F 1983; 49: pp. 328-33					
		Pitarsy II, C. J., et al., "Long-Term Effects of Excision of the Mitral Apparatus on Global and Regional Ventricular Function in Humans", JACC, Vol. 15, No. 3, March 1, 1990, pp. 557-563					
EXAMINER				DATE CONSIDERED			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		US 6,182,664 B1	2/6/2001	Cosgrove			
		6,125,852	10/3/2000	Stevens et al.			
		6,117,159	9/12/2000	Huebsch et al.			
		6,079,414	6/27/2000	Reth			
		6,024,756	2/15/2000	Huebsch et al.			
		5,984,857	11/16/1999	Buck et al.			
		5,972,030	10/26/1999	Garrison et al.			
		5,971,911	10/26/1999	Wilk			
		5,957,977	9/28/1999	Melvin			
		5,865,791	2/2/1999	Whayne et al.			
		5,856,614	1/5/1999	Hall			

FOREIGN PATENT DOCUMENTS								
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation		
						YES	NO	
	WO 96/40356	12/19/1996	PCT					
	WO 9604852A1	2/22/1996	PCT					
	WO 95/16476	6/22/1995	PCT					
	WO95/06447	3/9/1995	PCT					
	WO 93/20742	10/28/1993	PCT					

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>	
	Bolling, S. F., "Early Outcome of Mitral Valve Reconstruction in Patients with End-Stage Cardiomyopathy", The Journal of Thoracic and Cardiovascular Surgery, Vol. 109, No. 4, pp. 676-683
	Oe, Masahiro, et al., "Effects of preserving mitral apparatus on ventricular systolic function in mitral valve operations in dogs", The Journal of Thoracic and Cardiovascular Surgery, Vol. 106, No. 5, pp. 1138-1146

EXAMINER	DATE CONSIDERED
----------	-----------------

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	herewith	unassigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,855,601	1/5/1999	Bessler et al.			
		5,849,005	12/15/1998	Garrison et al.			
		5,814,097	9/29/1998	Sterman et al.			
		5,810,721	9/22/1998	Mueller et al.			
		5,800,528	9/1/1998	Lederman et al.			
		5,800,334	9/1/1998	Wilk			
		5,776,151	6/16/1998	Valley et al.			
		5,758,663	6/2/1998	Wilk et al.			
		5,718,725	2/17/1998	Sterman et al.			
		5,713,954	2/3/1998	Rosenberg et al.			
		5,682,906	11/4/1997	Sterman et al.			

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	WO 93/20741	10/28/1993	PCT				
	WO 91/19465	12/16/1991	PCT				
	DE4234127	5/26/1994	Germany				

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	Alonso-Lej, F., "Adjustable Annuloplasty for Tricuspid Insufficiency", The Annals of Thoracic Surgery, Vol. 46, No. 3, September 1988, pp. 368-369
	Kurlansky, P., et al., "Adjustable Annuloplasty for Tricuspid Insufficiency", Annual Thoracic Surgery, Vol. 44, October 1987, pp. 404-406

EXAMINER	DATE CONSIDERED
----------	-----------------

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U.S. PATENT DOCUMENTS								
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		5,665,092	9/9/1997	Mangiardi et al.				
		5,593,424	1/14/1997	Northrop III				
		5,584,803	12/17/1996	Stevens et al.				
		5,571,215	11/5/1996	Sterman et al.				
		5,533,958	7/9/1996	Wilk				
		5,509,428	4/23/1996	Dunlop				
		5,501,698	3/26/1996	Roth et al.				
		5,496,305	3/5/1996	Kittrell et al.				
		5,458,574	10/17/1995	Machold et al.				
		5,452,733	9/26/1995	Sterman et al.				
		5,450,860	9/19/1995	O'Connor				
FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>								
		Boyd, A. D., et al., "Tricuspid annuloplasty", The Journal of Thoracic and Cardiovascular Surgery, Vol. 68, No. 3, September 1974, pp. 344-351						
		Edie, R. N., et al., "Surgical repair of single ventricle", The Journal of Thoracic and Cardiovascular Surgery, Vol. 66, No. 3, September 1973, pp. 350-360						
EXAMINER				DATE CONSIDERED				
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U.S. PATENT DOCUMENTS

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		5,433,727	7/18/1995	Sideris			
		5,433,700	7/18/1995	Peters			
		5,391,156	2/21/1995	Hildwein et al.			
		5,385,528	1/31/1995	Wilk			
		5,339,800	8/23/1994	Wlita et al.			
		5,332,402	7/26/1994	Teitelbaum			
		5,312,344	5/17/1994	Grinfeld			
		5,308,320	5/3/1994	Safar et al.			
		5,284,488	2/8/1994	Sideris			
		5,250,038	10/5/1993	Melker			
		5,250,049	10/5/1993	Michael			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	McGoon, D. C., et al., "Correction of the univentricular heart having two atrioventricular valves" The Journal of the Thoracic and Cardiovascular Surgery, Vol. 74, No. 2, August 1977, pp. 218-226
	Lev, M., et al., "Single (Primitive) Ventricle", Circulation, Vol. XXXIX, May 1969, pp. 577-591

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----------	-----------------

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,203,776	4/20/1993	Durfee			
		5,197,979	3/30/1993	Quintero et al.			
		5,192,314	3/9/1993	Daskalaskis			
		5,188,619	2/23/1993	Myers			
		5,169,381	12/8/1992	Snyders			
		Re. 34,021	8/4/1992	Mueller et al.			
		5,131,905	7/21/1992	Grooters			
		5,109,859	5/5/1992	Jankins			
		5,106,386	4/21/1992	Isner et al.			
		5,104,393	4/14/1992	Isner et al.			
		5,104,407	4/14/1992	Lam et al.			

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		Shumacker, Jr., H. B., "Cardiac Aneurysms", The Evolution of Cardiac Surgery, Vol. 21, 1992, pp. 159-165
		Feldt, R. H., et al., "Current status of the septation procedure for univentricular heart", The Journal of Thoracic and Cardiovascular Surgery, Vol. 82, No. 1, July 1981, pp. 93-97

EXAMINER	DATE CONSIDERED
----------	-----------------

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	Filing Date herewith	Group Art Unit unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,041,130	8/20/1991	Cosgrove et al.			
		5,032,128	7/16/1991	Alonso			
		5,011,469	4/30/1991	Buckberg et al.			
		4,997,431	3/5/1991	Isner et al.			
		4,960,424	10/2/1990	Grooters			
		4,944,753	7/31/1990	Burgess et al.			
		4,936,857	6/26/1990	Kulik			
		4,808,163	2/28/1989	Laub			
		4,705,040	11/10/1987	Mueller et al.			
		4,690,134	9/1/1987	Snyders			
		4,655,218	4/7/1987	Kulik et al.			

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	Doty, D. B., et al., "Septation of the univentricular heart", The Journal of Thoracic and Cardiovascular Surgery, Vol. 78, No. 3, September 1979, pp. 423-430
	Savage, E. B., et al., "Repair of left ventricular aneurysm, Changes in ventricular mechanics, hemodynamics, and oxygen consumption", The Journal of Thoracic and Cardiovascular Surgery, Vol. 134, No. 3, September 1992, pp. 752-762

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----------	-----------------

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,536,893	8/27/1985	Parravicini			
		4,409,974	10/13/1983	Freeland			
		4,372,293	2/8/1983	Vijil-Rosales			
		4,261,342	4/14/1981	Aranguren Duo			
		4,192,293	3/11/1980	Asrican			
		4,173,981	11/13/1979	Mortensen			
		4,042,979	8/23/1977	Angell			
		3,409,013	11/5/1968	Berry			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		Melvin, D., "Ventricular Radius-Reduction Without Resection", A Computational Assessment, University of Cincinnati
		Melvin, D. B., et al., "Reduction of Ventricular Wall Tensile Stress by Geometric Remodeling Device", University of Cincinnati and CardioEnergetics, Inc., (Poster text, ASAIO, 1999)

EXAMINER

DATE CONSIDERED

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		herewith	unassigned

EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>
	Kay, E. B., et al., "Surgical Treatment of Mitral Insufficiency", The Journal of Thoracic Surgery, Vol. 29, January-June, 1955, pp. 618-620
	Harken, D. E., et al., "The Surgical Correction of Mitral Insufficiency", The Journal of Thoracic Surgery, Vol. 28, July-December, 1954, pp. 604-627
	Bailey, C. P., et al., "Closed Intracardiac Tactile Surgery", Diseases of the Chest, Vol. XXII, July-December, 1952, pp. 1-24
	Sakakibara, S., "A Surgical Approach to the Correction of Mitral Insufficiency", Annals of Surgery, Vol. 142, July-December 1955, p. 196-203
	Glenn, W. W. L., et al., "The Surgical Treatment of Mitral Insufficiency: The Fate of A Vascularized Transcatheter Intracardiac Graft", Annals of Surgery, Vol. 141, No. 4, pp. 510-518
	Kay, E. B., et al., "Surgical Treatment of Mitral Insufficiency", Surgery, Vol. 37, No. 5, May, 1955, pp. 697-720
	Bailey, C. P., et al., "The Surgical Correction of Mitral Insufficiency By the Use of Pericardial Grafts", The Journal of Thoracic Surgery, Vol. 28, July-December 1954, pp. 551-603
	Harken, D. E., et al., "The Surgical Correction of Mitral Insufficiency", The Journal of Thoracic Surgery, Vol. 28, July-December 1954, pp. 604-627
	Shumacker, Jr., H. B., "Attempts to Control Mitral Regurgitation", The Evolution of Cardiac Surgery, 1992, pp. 204-210
	Ianuzzo, C. D., et al., "Preservation of the Latissimus Dorsi Muscle During Cardiomyoplasty Surgery", Journal of Cardiac Surgery, Vol. 11, September 1996, pp. 99-108
	Chachques, J. C., et al., "Latissimus Dorsi Dynamic Cardiomyoplasty", The Society of Thoracic Surgeons, 1989, Vol. 47, pp. 600-604
	Moreira, L. F. P., et al., "Latissimus Dorsi Cardiomyoplasty in the Treatment of Patients with Dilated Cardiomyopathy", Circulation, 1990, Vol. 82

EXAMINER	DATE CONSIDERED

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EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>
	Lucas, C. M. H. B., et al., "Long-Term Follow-Up (1 to 35 Weeks) After Dynamic Cardiomyoplasty", Journal of American College of Cardiology, Vol. 22, No. 3, September 1993, pp. 758-767
	Batista, R. J. V., et al., "Partial Left Ventriculectomy to Improve Left Ventricular Function in End-Stage Heart Disease", Journal of Cardiac Surgery, 1996; 11: pp. 96-97
	Kormos, R. L., et al., "Experience with Univentricular Support in Mortally III Cardiac Transplant Candidates", Ann. Thorac. Surg. 1990; 49: pp. 261-272
	Wampler, R. K., et al., "Treatment of Cardiogenic Shock with the Hemopump Left Ventricular Assist Device", Ann. Thorac. Surg. 1991; 52: pp. 506-513
	McCarthy, P. M., et al., "Clinical experience with the Novacor ventricular assist system", J. Thorac. Cardiovasc. Surg. 1991; 102: pp. 578-587
	Bearnson, G. B., et al., "Development of a Prototype Magnetically Suspended Ventricular Assist Device", ASAIO Journal, July-August 1996, Vol. 42, No. 4pp. 275-281
	Sakakibara, N., et al., "A Muscle Powered Cardiac Assist Device for Right Ventricular Support: Total Assist or Partial Assist?", ASAIO Transactions, July-September 1990, Vol. 36, No. 3, pp. M372-M375
	Bach, D. S., et al., "Early improvement in congestive heart failure after correction of secondary mitral regurgitation in end-stage cardiomyopathy", American Heart Journal, June 1995, Vol. 129, No. 6, pp. 1165-1170
	Farrar, D. J., et al., "A New Skeletal Muscle Linear-pull Energy Converter as a Power Source for Prosthetic Circulatory Support Devices", The Journal of Heart and Lung Transplantation, September/October 1992, Vol. 11, No. 5, pp. S341-S349
	ABIOMED, Annual Report, 1996, for the Fiscal Year Ending March 31, 1996
	Medtronic 1996 Annual Shareholders Report
	Invited Commentary: Preservation of Muscle During Surgery, pp. 109-110, On "Preconditioning of Skeletal Muscle: Application to Dynamic Cardiomyoplasty" by C. David Ianzuzo, et al

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----------	-----------------

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*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>
	Carpentier, A., et al., "Myocardial Substitution with a Stimulated Skeletal Muscle: First Successful Clinical Case", Letters to the Editor, page 1267, September 1996
	"Congestive Heart Failure in the United States: A New Epidemic", NHLBI Congestive Heart Failure Data Fact Sheet, National Heart, Lung, and Blood Institute, National Institutes of Health, http://www.nhlbi.nih.gov/nhlbi/cardio/other/gp/CHF.htm
	"Heartmate System Becomes First Implantable Cardiac-Assist Device to be Approved to Commercial Sale in the U.S., Study Shows New Artificial Heart Technology Can Double The Rate of Survival for Heart Transplant Candidates", TCI Thermo Cardiosystems Inc. News Release, October 3, 1994
	ABIOMED NEWS, For Immediate Release, ABIOMED Wins \$8.5 Million Federal Contract To Qualify its Artificial Heart for Human Trials, September 16, 1996
	ABIOMED NEWS, For Immediate Release, ABIOMED's Temporary Artificial Heart System Reaches 200 U.S. Medical Center Milestone, September 26, 1996
	ABIOMED NEWS, For Immediate Release, ABIOMED Wins \$4.35 Million Contract From the National Heart, Lung and Blood Institutes to Develop Implantable Heart Booster, October 3, 1995
	ABIOMED NEWS, For Immediate Release, ABIOMED Wins NIH Grant to Develop Calcification-Resistant Plastic Heart Valve, September 29, 1995
	ABIOMED NEWS, ABIOMED Wins Research Grant From NIH to Develop Suturing Instrument for Abdominal Surgery, August 25, 1995
	ABIOMED NEWS, For Immediate Release, ABIOMED Receives Grant from NIH to Develop Disposable Bearingless Centrifugal Blood Pump, August 11, 1995
	ABIOMED NEWS, ABIOMED Receives Grant From National Institutes of Health To Develop a Laser Welding Technique for Tissue Repair, June 9, 1995
	ABIOMED NEWS, For Immediate Release, ABIOMED'S Temporary Artificial Heart System Reaches 1,000 patient Milestone; BVS-5000® in More than 100 U.S. Medical Centers, April 27, 1995
	THORATEC™ Brochure, January 2, 1997

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*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
	Reversible Cardiomyopathy, 88 Days of Biventricular VAD Support as a Bridge to Recovery, THORATEC'S HEARTBEAT, Vol. 10.2, August 1996		
	Gundry et al. "A Comparison of Retrograde Cardioplegia Versus Antegrade Cardioplegia in the Presence of Coronary Artery Obstruction," Ann. Thorac. Surg., Aug-1984, 38:2, 124-127		
	Lust et al. "Improved Protection of Chronically Inflow-limited Myocardium with Retrograde Coronary Sinus Cardioplegia," Circulation III, Nov. 1988, 78:5, 217-223		
	Crooke et al., "Biventricular Distribution of Cold Blood Cardioplegic Solution Administered by Different Retrograde Techniques," J. Cardiac Thorac. Surg., 1991, 102:4, 631-636		
	Sabiston, D. C., Textbook of Surgery, 10th Ed., 1972, pp. 2021-2023, pp. 2114-2121		
	Buckberg, G. D., "Strategies and Logic of Cardioplegic Delivery to Prevent, Aoid, and Reverse Ischemic and Reperfusion Damage," J. Thorac. Cardio. Vasc. Surg., 1987, 93:127-139		
	Razi, D. M. "The Challenge of Calcific Aortitis," J. Cardiac Thorac. Surg., 1993, 8:102-107		
	Coltharp, William H., et al. "Videothorascopy . . ." Ann Thorac Surg 1992; 53:776-9		
	Jamieson, W. R. Eric. "Modern Cardiac Valve Devices-Bioprostheses and Mechanical Prostheses" J Card Surg. 1993;8: 89-98		
	Landrenseau, Rodney J., et al. "Video-Assisted Thoracic Surgery . . ." Ann Thorac Surg 1992; 54:800-7		
	Mack, Michael J., et al. "Present Role of Thoracoscopy in the Diagnosis and Treatment of Diseases of the Chest" Ann Thorac Surg 1992; 54:403-9		
	Magovern, George J. "Sutureless Aortic and Mitral Prosthetic Valves" J. Thoracic and Cardiovasc Surg 1964; 48(3): 346-361		
EXAMINER		DATE CONSIDERED	
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		herewith	unassigned

EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>
	Ozuner, Gokhan, et al. "Creation of Pericardial Window Using Thoracoscopic Techniques" Surg, Gynecology & Obstetrics 1992; 175:69-71
	Wakabayashi, Akio. "Expanded Applications of Diagnostic and Therapeutic Thoracoscopy" J Thorac and Cardiovasc Surg 1991; 102:721-3
	Yamaguchi, A. et al. "A Case of a Reoperation Using a Balloon Catheter With Blocked Pars Acendes Aortae," Kyobu Geka, Oct. 1991, 42:11:961-964
	Peters, W. S., MB, ChB, "Minimally Invasive Cardiac Surgery by Cardioscopy," AustralAs J Cardiac Thorac Surg 1993:2(3) 152-154
	Cohn, L. H. et al. "Right Thoracotomy, Femorofemoral Bypass, and Deep Hypothermia for Re-replacement of the Mitral Valve," Ann. Thorac. Surg. 1989; 48; 69-71
	Fundaro, P. et al. "Towards an easier and safer reoperation of the atrioventricular valves. The right anterolateral thoracotomy approach without pericardial dissection," J. Cardiovasc. Surg. 30, 1989, 779-781
	Tribble, C. G. et al. "Anterolateral Thoracotomy as an Alternative to Repeat Median Sternotomy for Replacement of the Mitral Valve," Ann. Thorac. Surg. 43:380-382, Apr. 1987
	Berrekouw, E. et al. "Revival of Right Thoracotomy to Approach Atrio-ventricular Valves in Reoperations," Thorac. cardiovasc. Surgeon 32 (1984) 331-333
	Cosgrove, D. M. "Management of the Calcified Aorta: An Alternative Method of Occlusion" Ann Thorac Surg. 36:718-719 (1983)
	J. H. Foster and J. B. Threlkel "Proximal Control of Aorta with a Balloon Catheter" Surg, Gynecology & Obstetrics pp. 693-694 (1971)
	H. G. Erath, Jr. and William S. Stoney, Jr. "Balloon Catheter Occlusion of the Ascending Aorta" Ann Thorac Surg. 35:560-561 (1983)
	Sakaguchi, H. et al., "Aortic Valve Replacement and Coronary Artery Bypass" J. Japanese Assoc. for Thoracic Surgery 41(6) 1063-1068 (1993)
EXAMINER	DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional)		Application Number	
		15302ZYXWAZ		unassigned	
		Applicant(s)			
		JOHN H. STEVENS, et al.			
		Filing Date		Group Art Unit	
		herewith		unassigned	

*EXAMINER INITIAL	OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
	Batista et al., "Partial Left Ventriculectomy to Improve Left Ventricular Function in End-Stage Heart Disease", Vol. 11, No. pp. 96-98, July 1992		
	Schuler, G., et al., "Temporal Response of Left Ventricular Performance to Mitral Valve Surgery", Circulation, Vol. 59, No. 6 June 1979, pp. 1218-1231		
	ABIOMED NEWS, For Immediate Release, ABIOMED Receives FDA Approval To Expand Indications For Use of Cardiac Assist System, May 17, 1996		
	Ogawa, K., et al., "Aortic Arch Reconstruction Without Aortic Cross-Clamping Using Separate Extracorporeal Circulation", J. Jpn. Assn. Thorac. Surg., 1993; 41: 2185-2190.		
	Ishikawa, M., "Myocardial Protection by Retrograde Cardiac Perfusion with Cold Modified Krebs Solution Through Coronary Sinus During Complete Ischemic Arrest for 120 Min.", J. Jpn. Assn. Thorac. Surg., 1977, 25:12, 1592-1601.		
	Takahashi, M., "Retrograde Coronary Sinus Perfusion for Myocardial Protection in Aortic Valve Surgery", J. Jpn. Assn. Thorac. Surg., 1982, 30:3 306-318.		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">EXAMINER</td> <td style="width: 50%;">DATE CONSIDERED</td> </tr> </table>		EXAMINER	DATE CONSIDERED
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Schedule of
Stanford Surgical Technologies, Inc.
U.S. Patent Properties

Patent No. Issue Date	Serial No. File Date	Title	TTC/HT Docket Nos.
	08/261,167 06/17/94	Improved Surgical Stapling Instrument and Method Thereof	(Non TTC) 025
	08/023,778 02/22/93	Methods for Performing Thoracoscopic Coronary Artery Bypass (As amended)	14635-000300 005
	08/163,241 12/06/93	Devices and Methods for Intracardiac Procedures	14635-000310 010-CP
	08/173,899 12/27/93	Thoracoscopic Devices and Methods for Arresting the Heart	14635-000320 013-CP
	08/265,477 06/24/94	Endoscopic Vascular Clamping System and Method	14635-000330 017-CP
	08/376,330 01/20/95	Methods for Performing Thoracoscopic Coronary Artery Bypass (As amended)	14635-000340 005-D1
	08/415,273 04/03/95	Thoracoscopic Devices and Methods for Arresting the Heart	14635-000350 013-D1
	08/123,411 09/17/93	Endovascular System for Arresting the Heart	14635-000400 007-CP
	08/162,742 12/03/93	Cardiopulmonary Bypass System for Closed-Chest Intervention	14635-000410 012-CP
	08/135,387 10/08/93	Stereoscopic Percutaneous Visualization System	14635-000500 009
	08/227,366 04/13/94	Stereoscopic Percutaneous Visualization System	14635-000510 016-CP
	08/194,946 02/14/94	Endoscopic Microsurgical Instruments and Methods	14635-000700 014
	08/213,760 03/16/94	System for Performing a Cardiac Procedure	14635-000900 008

Schedule of
Stafford Surgical Technologies, Inc.
U.S. Patent Properties

Patent No. Issue Date	Serial No. File Date	Title	TTC/HT Docket Nos.
	07/991,188 12/15/92	System for Cardiac Procedures	14635-001600 003-CP
	08/310,818 09/22/94	System for Cardiac Procedures	14635-001610 003-F1
	08/159,815 11/30/93	Method for Intraluminally Inducing Cardioplegic Arrest and Catheter for Use Therein	14635-002000 015
	08/427,384 04/24/95	Method for Intraluminally Inducing Cardioplegic Arrest and Catheter for Use Therein	14635-002010 015-D1
5,370,685 12/06/94	07/730,559 07/16/91	Endovascular Aortic Valve Replacement	14635-002100 002
	08/206,419 03/04/94	Endovascular Aortic Valve Replacement	14635-002110 002-D1
	08/281,891 07/28/94	Methods and Systems for Performing Thoracoscopic Coronary Bypass and Other Procedures	14635-002200 006-CP
	08/281,962 07/28/94	Devices and Methods for Intracardiac Procedures	14635-002300 011-CP
	08/282,192 07/28/94	System for Cardiac Procedures	14635-002400 004-CP
	08/288,674 08/10/94	Surgical Knot Pusher and Method of Use	14635-002600 020-CP
	08/298,646 08/01/94	Device and Method for Isolating a Surgical Site	14635-002700 018
	08/294,454 08/23/94	Endoscopic Retraction System and Method	14635-002800 019-CP
	08/336,359 11/08/94	Fluid-Evacuating Electrosurgical Device	14635-003100 024
	08/351,850 12/07/94	Cardioplegia Catheter System	14635-003300 021

**Schedule of
Stanford Surgical Technologies, Inc.
U.S. Patent Properties**

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